

***FlyBy Math™* Alignment**
Iowa K-12 Content Standards and Benchmarks

A. Students can understand and apply a variety of math concepts.

Benchmarks	<i>FlyBy Math™</i> Activities
2. Students can understand and apply concepts and procedures of algebra.	--Represent distance, speed, and time relationships for constant speed cases using tables, bar graphs, line graphs, equations, and a Cartesian coordinate system.
3. Students can understand and apply concepts of geometry.	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes.
4. Students can understand and apply concepts of measurement.	--Calculate and measure the position and time of simulated aircraft. Represent that motion using tables, graphs, equations, and experimentation.
5. Students can understand and apply concepts in probability and statistics.	--Conduct simulation and measurement for several aircraft conflict problems. --Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs.

B. Students can understand and apply methods of estimation.

Benchmarks	<i>FlyBy Math™</i> Activities
1. Students can understand and apply concepts and procedures of standard rounding, order of magnitude, and number sense.	--Predict outcomes and explain results of mathematical models and experiments.

C. Students can solve a variety of math problems.

Benchmarks	<i>FlyBy Math™</i> Activities
1. Students can solve math problems.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
2. Students can understand and apply problem-solving approaches and procedures.	--Apply mathematics to predict and analyze aircraft conflicts and validate through experimentation. --Use tables, graphs, and equations to solve aircraft conflict problems.

D. Students can interpret data presented in a variety of ways.

Benchmarks	<i>FlyBy Math™</i> Activities
1. Students can use tables and graphs to locate and read information.	--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.
2. Students can interpret data from a variety of sources.	--Use tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.